



874753 KW LOAD
 0.85 PF 60 PSIA R₁
 TURBINE NAMEPLATE RATING 841926 KW
 GENERATOR RATING 1000000 KW
 AT 60 PSIA H₂

GENERATOR
 ELEC LOSS 11000 KW
 AT 60 PSIA H₂
 MECH LOSS 3045 KW

PERFORMANCE			
GROSS GENERATION KW	AUXILIARY POWER KW	NET OUTPUT KW	NET STATION HEAT RATE BTU/KW-HR
874753	41048	833705	10990

LEGEND
 Q - FLOW - LBS/HR
 P - PRESSURE - LBS/SQ IN ABS
 F - TEMPERATURE - °F
 H - ENTHALPY OF STEAM - BTU/LB
 h - ENTHALPY OF LIQUID BTU/LB
 FTD - TERMINAL DIFFERENCE - °F
 D.C. - DRAIN COOLER APPROACH - °F
 ELEP - EXPANSION LINE END POINT
 CEP - CONDENSER LINE END POINT
 G.L. - GENERATOR LOSSES
 M.L. - MECHANICAL LOSSES
 --- STEAM
 --- WATER
 --- EXTRACTION STEAM
 (V) THROTTLE VALVE
 (R) REHEAT INTERCEPT VALVE
 (D) DIAPHRAGM CONTROL VALVE

REFERENCE SHEET NO.	STEAM GENERATOR OUTPUT LBS/HR	THROTTLE FLOW LBS/HR	THROTTLE PRESSURE PSIA	BACK PRESSURE IN OF HG ABS	BLOW DOWN LBS/HR	CYCLE LOSSES LBS/HR	NOTES
1	11733250	10972438	765	3.2	11000	20000	MAXIMUM EXPECTED THROTTLE FLOW
2	11192202	10440312	772	3.2	10400	20000	GUARANTEED THROTTLE FLOW
3	8385009	7709726	804	3.2	7700	20000	75% LOAD POINT
4	5757211	5201337	831	3.2	5200	20000	50% " "
5	3177411	2791030	857	3.2	2800	20000	25% " "

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FLORIDA POWER & LIGHT COMPANY
 ST. LUCIE PLANT
 1979 - 890,000KW EXTENSION UNIT 2
 HEAT BALANCES

EBASCO SERVICES INCORPORATED	
SCALE	DATE
1/4" = 1'	3-2-75
BY: [Signature]	DATE: 3-2-75
DR: [Signature]	2998-G-056
CHK: [Signature]	SHEET 1 OF 5

NO.	DATE	REVISION	BY	CHK	APPROVED

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